

MODULARM DAC-55™ & DL-35™

Door Monitors

For Walk-In Freezers, Walk-In Coolers, Temperature or Environmentally Sensitive Compartments & Secure Areas



DAC-55

DL-35

Features at a Glance

- Door Ajar Alarm (field adjustable time delay) with visual, audible and remote notification. (Remote on DAC-55 only)
- Panic (Entrapment) Alarm, manual and automatic. (Accessible with optional Illuminated Pushbutton, Part # IP-1)
- Automatic control of interior compartment lights relative to the status of the door
- (DAC-55 only) Automatic control of the refrigeration system (fans and solenoid) relative to the status of the door in a variety of user selectable configurations
- (DAC-55 only) Automatic restarting of refrigeration (fans and solenoid) in a door-ajar alarm condition
- (DAC-55 only) Compatible with the **Datalarm™** Monitoring/Data Logging System

Benefits

- Saves energy
- Increases operator safety
- Lowers equipment maintenance costs
- Reduces coil icing
- Helps compartment to operate more efficiently
- Helps to maintain product integrity and prevent loss
- Makes functions normally “personnel controlled” automatic to eliminate user error:
 - a. Replaces standard light switches
 - b. Replaces mechanical refrigeration shutoff timers, door operated refrigeration shutoff switches and manually operated shutoff switches (DAC-55 only)
- Easy to install

Applications

- Supermarkets and Convenience Stores
- Fast Food Facilities
- Hotels and Resorts
- Correctional Institutions
- Restaurants and Catering Halls
- Schools and Cafeterias
- Institutional Kitchens and Nursing Homes
- Hospitals and Blood Banks
- Environmental Rooms and Biomedical Labs
- Warehouse Facilities
- (DL-35) Secure Areas, such as College Dormitories

Operation

The DAC-55 and the DL-35 use low voltage magnetic contacts to monitor door status. (Additional contacts may be added to monitor multiple doors.) Both units use internal relays (dry contacts) to perform control functions. Operation is as follows:

SYSTEM FUNCTIONS	MONITORED CONDITIONS			
	DOOR CLOSED (NORMAL OPERATION) *1	DOOR OPENED	DOOR OPENED FOR TOO LONG (ALARM DELAY TIMES OUT)	DOOR CLOSED
DOOR AJAR ALARM	No alarm	Visual Alarm activates. Audible Alarm Delay activates. (Field adjustable, 5-45 minutes)	Audible Alarm activates. (Alarm Relay also activates on DAC-55 only)	Alarm functions reset. No alarm.
INTERIOR LIGHTS	OFF	ON	ON	Lights turn off 10 minutes after door is closed. (Unless optional IP-1 is pressed if installed. See back)
REFRIGERATION SYSTEM (DAC-55 ONLY)	ON	Refrigeration operation may be interrupted depending upon setting of user selectable parameters *2	If refrigeration operation has been interrupted and door remains open for 40 seconds after audible sounds, refrigeration will automatically restart. (Auto restart)	Resume after safety delay

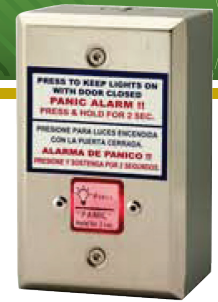
*1 Door closed at any time always restores normal operation. (No Alarm, Lights Off, Refrigeration On.)

*2 The DAC-55 may be configured to affect refrigeration operation in a variety of user selectable configurations:

1. **Constant On Refrigeration Switch** – When selected, refrigeration operation is unaffected when door is opened.
2. **Refrigeration Shutoff Pre-Delay Adjustment** – Provides means for creating a period of time from when door is opened to when refrigeration operation is interrupted. (A significant feature for food service applications with frequent short duration opening and closing of compartment doors.) Range: 1-120 seconds.
3. **Fan Shutoff Switch** – When selected, fans shut off immediately when door is opened. (Solenoid still responds to the **Refrigeration Shutoff Pre-Delay Adjustment setting**.)

MODULARM DAC-55™ & DL-35™ Door Monitors

For Walk-In Freezers, Walk-In Coolers, Temperature or Environmentally Sensitive Compartments & Secure Areas



IP-1

IP-1 Illuminated Pushbutton (Optional Accessory)

The IP-1 mounts **inside** of the monitored compartment. **With the door closed and the user inside of the compartment**, the IP-1 offers the following additional functions:

- Lights & Refrigeration Control** – Momentarily pressing the pushbutton will shut refrigeration off (DAC-55 only) and keep interior lights on. (Functions return to normal operation when user exits and closes door.)
- Panic Alarm** – Holding the pushbutton for 2 seconds causes immediate activation of all alarm functions. A **Safety Feature** for when personnel may be trapped in a compartment by a malfunctioning door or a doorway being blocked. (Functions return to normal operation when user exits and closes door.)

SPECIFICATIONS

	DAC-55	DL-35
DIMENSIONS	Surface: 8" L x 6" W x 1.8" D	Surface: 4.5" L x 2.75" W x 2.5" D
POWER	120 VAC @ 80 mA, surge protected. (Other operating voltages available)	120 VAC @ 20 mA, surge protected. (Other operating voltages available)
CONTACTS	Lights: N/O Dry Contacts, 30A Fans: N/C Dry Contacts, 30A Solenoid: N/C Dry Contacts, 5A Alarm Relay: N/O & N/C Dry Contacts, 1A @ 12 VDC	Lights: N/O Dry Contacts, 30A @ 120 or 240 VAC (Built-In Arc Suppression on all control contacts to minimize pitting)
AUDIBLE ALARM	Piezo Horn: Frequency ~2500kHz, SPL -100dB @ 30cm Typical	Piezo Horn: Frequency ~3.8kHz, SPL -85dB @ 3' Typical
VISUAL ALARM	Strobe Light	Red LED
TIME DELAY	Door Ajar Alarm. Range: 5-45 minutes. Refrigeration Shutoff pre-delay. Range: 1-120 seconds	Door Ajar Alarm. Range: 5-45 minutes



MODULARM

BROUGHT TO YOU BY
KITCHEN BRAINS®

Food Automation - Service Techniques, Inc.
905 Honeyspot Road, Stratford, CT 06615-7147 USA

Phone: **+1-203-377-4414**

Sales: **1-800-327-8766**

Fax: +1-203-377-8187

International Callers: **+1-203-378-6860**

www.KitchenBrains.com

Toll-free technical support 24/7 from the U.S., Canada, and Caribbean: **1-800-243-9271**



International offices are located in the United Kingdom, China and Singapore:

Europe, Middle East, Africa
31 Saffron Court Southfields Business Park
Basilidon, Essex SS15 6SS ENGLAND
Phone: **+44 0 1268544000**

China
1803, 18F, No 922 Hengshan Rd
Shanghai 200030, CHINA
Phone: **+8613916 854 613**

Asia Pacific
13A MacKenzie Road
228676
Singapore
Phone: **+65 983159273**

WARRANTY

Kitchen Brains warrants that its products shall not fail to function in accordance with their specifications because of defects in material or workmanship, for the following warranty periods:

- New Products: New Products consisting of microprocessor based controllers, timers, data-loggers or remote monitoring devices for 1 year from date of purchase.
- Sensors and Accessories: Sensors and accessories (consisting of probes, wireless sensors, hoses, relays, switches, mounting hardware or accessories) for 90 days from date of purchase.

For complete details consult www.kitchenbrains.com/warranty

PATENTS

The products manufactured by Kitchen Brains are protected under one or more of the following U.S. Patents:

5,331,575	5,539,671	5,711,606	5,723,846
5,726,424	5,875,430	6,142,666	6,339,930
6,401,466	6,401,467	6,581,391	7,015,433
7,145,463	7,650,833	7,877,291	8,060,408

Plus foreign patents and patents pending. Plus licensed patent 5,973,297